Supplement to "JOURNAL OF THE GEOLOGICAL SOCIETY OF AUSTRALIA", Vol. 28 Pts 3 & 4

21 A 341-6

Journal of the Geological Society of Australia

Volume 28 1981

Geological Society of Australia Incorporated

President-R. D. Gee

Vice-Presidents-C. D. Branch, M. J. Rickard

Hon. Secretary-R. E. Smith

Hon. Treasurer-K. K. Sappal

Hon. Administrative Officer-W. E. Foskett

Hon. Editor-R. H. Vernon

Editorial Board—R. A. Binns, J. M. Bowler, A. C. Cook, P. J. Cook, D. Denham, M. A. Etheridge, J. Ferguson, A. D. T. Goode, D. C. Green, D. I. Groves, H. J. Harrington, P. A. Jell, M. H. Johnstone, I. McDougall, W. V. Preiss, S. E. Shaw, D. H. Stapledon, J. J. Veevers, K. L. Williams, C. J. L. Wilson.

Address editorial matters to the Hon. Editor: Assoc. Prof. R. H. Vernon School of Earth Sciences Macquarie University North Ryde NSW 2113

Address other matters to the Business Manager, Miss L. C. Tuckwell, at the Society's office: Room 1001 Challis House 10 Martin Place Sydney 2000

ISSN 0016-7614 Price to non-members \$15.00 per issue Supplement to "JOURNAL OF THE GEOLOGICAL SOCIETY OF AUSTRALIA", Vol. 28, Pt 3-4.

N. S. MANCKTELOW:

CONTENTS

VOLUME 28, No. 1

Variation in fold axis geometry and slaty cleavage microfabric associated with a major fold arc, Fleurieu Peninsula, South Australia	1
BRIAN G. JONES, PAUL F. CARR & ERIC CONDLIFFE: Ferrian tourmaline from Bungonia, New South Wales	13
M. J. RICKARD & P. WARD:	
Palaeozoic crustal thickness in the southern part of the Lachlan orogen deduced from volcano and pluton-spacing geometry	19
ERIC A. K. MIDDLEMOST:	
The Canobolas complex, N.S.W., an alkaline shield volcano	33
R. J. Korsch:	
Structural geology of the Rockvale Block, northern New South Wales -	51
J. T. Hutton & J. C. Dixon:	
The chemistry and mineralogy of some South Australian calcretes and associated soft carbonates and their dolomitisation	71
G. J. Ambrose & R. B. Flint:	
A regressive Miocene lake system and silicified strandlines in northern South Australia: implications for regional stratigraphy and silcrete genesis -	81
EMILE ROD:	
Discussion: Evolution of central eastern Australia during the Palaeozoic and early Mesozoic	95
P. R. Evans & J. Roberts:	
Reply: Evolution of central eastern Australia during the late Palaeozoic and early Mesozoic	96
T. H. Donnelly:	
Discussion: Sedimentology, stable-isotope geochemistry and palaeoenvironment of dolostones capping late Precambrian glacial sequences in Australia	99
G. E. WILLIAMS:	
Reply: Sedimentology, stable-isotope geochemistry and palaeoenvironment of dolostones capping late Precambrian glacial sequences in Australia	102

VOLUME 28, No. 2

JOHN A. WEBB: A radiometric time scale of the Triassic	107
T. A. P. KWAK & P. W. Askins: The nomenclature of carbonate replacement deposits, with emphasis on Sn-F(-Be-Zn) 'wrigglite' skarns	123
S. K. Sen & R. L. Oliver: Secondary hornblendes in some granulite facies rocks from the Mann Ranges, Australia	137
C. Prasada Rao & I. H. Naqvi: Sedimentology, geochemistry and discriminant analysis in the engineering geological investigation of damsites, Lower Gordon Area, Tasmania -	141
IAN McDougall, B. J. J. Embleton & D. B. Stone: Origin and evolution of Lord Howe Island, Southwest Pacific Ocean	155
D. M. FINLAYSON & H. M. McCracken: Crustal structure under the Sydney Basin and Lachlan Fold Belt, determined from explosion seismic studies	177
F. C. Beavis: Engineering aspects of weathered dolomite in an arid zone	191
R. J. Korsch & H. J. Harrington: Stratigraphic and structural synthesis of the New England Orogen	205
P. M. Ashley & R. H. Flood: Low-K tholeiites and high-K igneous rocks from Woodlark Island, Papua New Guinea	227
G. M. DERRICK & I. H. WILSON: Discussion: Structural and stratigraphic problems of the Argylla Formation near Mary Kathleen, Queensland	241
R. J. HOLCOMBE: Reply: Structural and stratigraphic problems of the Argylla Formation near Mary Kathleen, Queensland	244
M. B. KATZ: Note on the layered anorthosite complex of the Harts Range ruby deposit in the Arunta Block, central Australia	247
Corrigendum	249

DAVID HILYARD:	
Environmental, palaeogeographic, and tectonic setting of the Mullions Range Volcanics, New South Wales	251
R. J. Korsch:	
Some tectonic implications of sandstone petrofacies in the Coffs Harbour Association, New England Orogen, New South Wales	261
R. A. Cas, C. McA. Powell, C. L. Fergusson, J. G. Jones, W. D. Roots & J. Fergusson:	
The Lower Devonian Kowmung Volcaniclastics: a deep-water succession of mass-flow origin, northeastern Lachlan Fold Belt, N.S.W.	271
DAVID DENHAM:	
Papers on stress and seismicity in S.E. Australia	289
K. J. MUIRHEAD:	
Seismicity induced by the filling of the Talbingo Reservoir	291
JOHN SHEPHERD & JONATHAN F. HUNTINGTON:	
Geological fracture mapping in coalfields and the stress fields of the Sydney Basin	299
PETER WELLMAN:	
Crustal movement determined from repeat surveying—results from south- eastern and southwestern Australia	311
DAVID DENHAM, JANET WEEKES & CLEMENTINE KRAYSHEK:	
Earthquake evidence for compressive stress in the southeast Australian crust	323
C. M. BARTON:	
Regional stress and structure in relation to brown coal open cuts of the Latrobe Valley, Victoria	333
GARY GIBSON, VAUGHAN WESSON & RUSSELL CUTHBERTSON:	
Seismicity of Victoria to 1980	341
P. L. AIREY & D. ROMAN:	
Uranium series disequilibria in the sedimentary uranium deposit at Yeelirrie, Western Australia	357
J. S. STUCKLESS, J. A. BUNTING & I. T. NKOMO:	
U-Th-Pb systematics of some granitoids from the northeastern Yilgarn Block, Western Australia and implications for uranium source rock potential	365

J. J. Veevers & L. Hansen:	
Volcanism in the rift-valley system that evolved into the western margin of Australia	377
MIKE BARBETTI & M. J. SHEARD:	
Palaeomagnetic results from Mounts Gambier and Schank, South Australia	385
J. R. RICHARDS & O. P. SINGLETON:	
Palaeozoic Victoria, Australia: igneous rocks, ages and their interpretation	395
C. R. TWIDALE:	
Origins and environments of pediments	423
G. Singh, N. D. Opdyke & J. M. Bowler:	
Late Cainozoic stratigraphy, palaeomagnetic chronology and vegetational history from Lake George, N.S.W	435
R. F. Berry:	
Petrology of the Hili Manu lherzolite, East Timor	453
P. S. Roy & B. G. Thom: Late Quaternary marine deposition in New South Wales and southern Queensland—an evolutionary model	471
P. R. J. SHACKLEFORD & D. J. SUTTON:	
A first interpretation of crustal structure in the Adelaide Geosyncline in South Australia using quarry blasts -	491
H. J. HARRINGTON:	
Big Bend Megafold or Broken River Triple Junction?	501
D. L. STRUSZ:	
Discussion: Stratigraphic and structural synthesis of the New England Orogen	503
R. J. Korsch & H. J. Harrington;	
Reply: Stratigraphic and structural synthesis of the New England Orogen -	504
Corrigendum	505